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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,926	10/24/2003	Kumar T. Kembaiyan	03-GD93	9038
10395	7590 03/07/2006		EXAMINER	
SMITH INT	ERNATIONAL INC.		SMITH, MA	ATTHEW J
16740 HARD	-		ART UNIT	PAPER NUMBER
HOUSTON,	1X //032		3672	

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)		
		10/692,926	KEMBAIYAN, KUMAR T.		
	Office Action Summary	Examiner	Art Unit		
		Matthew J. Smith	3672		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on <u>27 De</u>	ecember 2005.			
·	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) 1-11, 14-31, and 34-40 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-11, 14-16, 21-31 and 34-36 is/are rej Claim(s) 17-20 and 37-40 is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
A44a - b	Wa)				
2) Notice	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

Art Unit: 3672

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11, 14-16, 21-31, and 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Short, Jr. (4453605) in view of Steine et al. (4052531).

Short, Jr. discloses a method of making a downhole cutting tool comprising inserting a base portion of a cutting element 16 into a body cavity or pocket 14 in a blade 22, locating a braze alloy 28 in the cavity after positioning of the cutter 16, heating the alloy to bond, placing the alloy in a space between the cutter and pocket (fig.5), fixed cutter drill bit 10, the cutter having a ultrahard or tungsten carbide substrate (col. 5, line 30), polycrystalline diamond (col. 2, lines 24-25), but not the particular composition of the alloy nor the weight percents of the braze alloy components.

Steine et al. teach using a brazing alloy including silver (Ag) 40-65%, indium 6-12%, zinc 6-12%, and copper 23-36% (col. 3, lines 9-12), and including tin at 2% (col. 2, line 52) with the zinc and its advantages in high temperature brazing of metal parts (col. 1, lines 59-66).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to use the brazing alloy taught by Steine et al. in the Short, Jr. brazing alloy and method of making a cutting tool in order to have an alloy brazed at temperatures between 650 to 810 degrees Celsius and is highly fluid and has good wetting properties (col. 1, lines 65-66).

Allowable Subject Matter

Claims 17-20 and 37-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments, see page 8, filed 27 December 2005, with respect to the rejections of claims 1-40 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new rejection is made in view of Steine et al. This reference discuses the state of the braze alloy art and is considered to show the addition of indium, and indium's inherent properties, is known.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Smith whose telephone number is 571-272-7034. The examiner can normally be reached on T-F, 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Bagnell

Supervisory Patent Examiner

Art Unit 3672

MJS /hJ3 28 February 2006